

## 7731A Coax - Low Loss Serial Digital Coax

For more Information  
please call

1-800-Belden1



### Description:

RG-11/U type, 14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BC - Bare Copper	.064

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.280

#### Outer Shield

##### Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.400 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 87 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

Min. Bend Radius (Install)/Minor Axis: 4 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

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EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 11/U

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes - Black only.

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 7732A

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/ft)

0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.0

### Nominal Velocity of Propagation:

VP (%)

85

### Nominal Delay:

Delay (ns/ft)

1.21

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.5

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.16
3.58	0.29
5	0.34
7	0.39
10	0.46
67.5	1.05
71.5	1.09
88.5	1.21
100	1.28
135	1.47
143	1.51
180	1.69
270	2.09
360	2.45
540	3.06
720	3.58

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750	3.66
1000	4.30
1500	5.50
2000	6.40
2250	6.90
3000	8.20
4500	10.40

### Max. Operating Voltage - UL:

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

**Other Electrical Characteristic 2:** Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	1600.000	23.000
1601.000	4500.000	21.000

### Sweep Test

**Sweep Testing:** 100% Sweep tested 5 MHz to 4.5 GHz.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7731A N3U1000	1,000 FT	95.000 LB	GREEN, MIL	C	#14 PE/GIFHDL DPE SH FRPVC
7731A N3U4000	4,000 FT	388.000 LB	GREEN, MIL	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0011000	1,000 FT	95.000 LB	BROWN		#14 PE/GIFHDL DPE SH FRPVC
7731A 0014000	4,000 FT	388.000 LB	BROWN	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0021000	1,000 FT	95.000 LB	RED	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0024000	4,000 FT	388.000 LB	RED	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0031000	1,000 FT	95.000 LB	ORANGE		#14 PE/GIFHDL DPE SH FRPVC
7731A 0034000	4,000 FT	388.000 LB	ORANGE	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0041000	1,000 FT	95.000 LB	YELLOW		#14 PE/GIFHDL DPE SH FRPVC
7731A 0044000	4,000 FT	388.000 LB	YELLOW	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0061000	1,000 FT	95.000 LB	BLUE, LIGHT		#14 PE/GIFHDL DPE SH FRPVC
7731A 0064000	4,000 FT	388.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0071000	1,000 FT	95.000 LB	VIOLET	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0074000	4,000 FT	388.000 LB	VIOLET	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0081000	1,000 FT	95.000 LB	GRAY		#14 PE/GIFHDL DPE SH FRPVC
7731A 0084000	4,000 FT	388.000 LB	GRAY	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0091000	1,000 FT	95.000 LB	WHITE		#14 PE/GIFHDL DPE SH FRPVC
7731A 0094000	4,000 FT	388.000 LB	WHITE	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0101000	1,000 FT	95.000 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 0104000	4,000 FT	388.000 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDL DPE SH FRPVC

### Notes:

C = CRATE REEL PUT-UP.

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